

02-11-06

IN THE UNITED STATES OF AMERICA
PATENT AND TRADEMARK OFFICE

APPLICANT: Montero

TITLE: BOTTLE WITH INTEGRALLY FORMED OPENER

ATTORNEY DOCKET NO.: 00-012283

COMMISSIONER OF PATENTS AND TRADEMARKS
WASHINGTON, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Roberto L. Montero

for BOTTLE WITH INTEGRALLY FORMED OPENER

This new application is for a(n)

- ☒ Original Utility
- ☐ Design
- ☐ Plant
- ☐ Divisional
- ☐ Continuation
- ☐ Continuation-in-part

Enclosed are:

- 7 Pages of specification
- 2 Pages of claims
- 1 Pages of abstract
- 1 Sheets of drawings
 - ☐ formal
 - ☒ informal

Additional papers enclosed:

- ☒ Information Disclosure Statement
- ☒ Combined Declaration and Power of Attorney
- ☐ Assignment of the invention to _____.

The inventorship for all the claims in this application are:

- ☒ the same
- ☐ are not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,
 - ☐ is submitted
 - ☐ will be submitted

02/10/00
1c772 U.S. PTO

09504406 021000

1c525 U.S. PTO

09/501406

02/10/00

Figure 1 is a schematic representation of the experimental design. It shows a flow from 'Study 1' to 'Study 2'. Study 1 involves 'Pretest' and 'Main Study'. Study 2 involves 'Pretest' and 'Main Study'. The 'Main Study' in both studies involves 'Participants' and 'Conditions'. The 'Conditions' are 'Control' and 'Intervention'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'. The 'Intervention' is 'Cognitive Behavioral Therapy (CBT)'. The 'Control' is 'Waitlist Control'.

Total					
Claims	1	-20 = 0	X	\$18.00	0.00
Independent					
Claims	1	-3= 0	X	\$78.00	0.00
Multiple dependent					
Claims		0	X	\$260.00	0.00
		Total Filing Fee		\$	<u>690.00</u>

Filing Fee Calculation (50% of above) \$ 345.00

\$ _____

[] Charge Account No. _____ in the amount of _____

[X] refund

Joseph N. Breaux
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Figure 1 consists of 12 maps of the United States, labeled (a) through (l), showing the distribution of the percentage of the population aged 65 and over. Map (a) represents the 1970 distribution, while maps (b) through (l) represent projected distributions for the years 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, and 2090, respectively. The maps illustrate the increasing concentration of the elderly population in the Northeast, Midwest, and South, and the decreasing concentration in the West.

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VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9 (f) AND 1.27 (b)) - INDEPENDENT INVENTOR

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9 c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9 (d) or a nonprofit organization under 37 CFR 1.9 (e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or an under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

☒ no such person, concern, or organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as

1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2216-2217		2217-2218		2218-2219		2219-2220		2220-2221		2221-2222		2222-2223		2223-2224	
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ATTORNEY DOCKET NO.: 00-012283

JOSEPH N. BREAU

[illegible]

Inventor:

Invention:

Prepared by:

(P/A File ID: 00-012283)
[Printed: January 11, 2000]

[Attorney's Docket ID: 00-012283]

Description

BOTTLE WITH INTEGRALLY FORMED OPENER

Technical Field

5 The present invention relates to beverage bottles with twist
off bottle caps and more particularly to a bottle with integrally
formed opener that includes a twist off bottle cap, a molded glass
bottle, and a peel off sanitary cover member; the twist off bottle
cap having a number of evenly spaced grippable teeth extending
10 outwardly from an internally threaded center cover portion; the
molded glass bottle having a neck portion and a bottom portion; the
neck portion terminating in a externally threaded neck member
defining a dispensing opening and companionately threaded to engage
and hold the twist off bottle cap in sealing relation to the
15 dispensing opening of the externally threaded neck member; the
bottom portion having a cap teeth engaging bottle cavity formed
into a bottom surface thereof sized to receiving a twist off bottle
cap therein and having a number of grippable teeth engaging
protrusions that are sized and shaped to fit between evenly spaced
20 grippable teeth of the twist off bottle cap; the peel off sanitary
cover member being adhesively secured to the bottom surface of the
bottom portion such that the cap teeth engaging bottle cavity is

sealingly covered; the peel off sanitary cover member having a grip tab extending from a side edge thereof.

Background Art

Many individuals find it difficult to twist off the twist off
5 cap of many beverage bottles. It would be a benefit, therefore, to have a beverage bottle with a twist of cap that included a cap twisting structure molded into a bottom bottle surface thereof sized and shaped to gripping hold the twist off cap of another identical bottle. Because the cap twisting structure is molded
10 into the bottom surface of the bottle where it can become contaminated while sitting on a table, in an ice chest or the like, it would also be a benefit to have a peel off cover member positioned over the cap twisting structure to protect it from contamination until it is used.

General Summary Discussion of Invention

It is thus an object of the invention to provide a bottle with integrally formed opener that includes a twist off bottle cap, a molded glass bottle, and a peel off sanitary cover member; the twist off bottle cap having a number of evenly spaced grippable
20 teeth extending outwardly from an internally threaded center cover portion; the molded glass bottle having a neck portion and a bottom portion; the neck portion terminating in a externally threaded neck

member defining a dispensing opening and companionately threaded to engage and hold the twist off bottle cap in sealing relation to the dispensing opening of the externally threaded neck member; the bottom portion having a cap teeth engaging bottle cavity formed into a bottom surface thereof sized to receiving a twist off bottle cap therein and having a number of grippable teeth engaging protrusions that are sized and shaped to fit between evenly spaced grippable teeth of the twist off bottle cap; the peel off sanitary cover member being adhesively secured to the bottom surface of the bottom portion such that the cap teeth engaging bottle cavity is sealingly covered; the peel off sanitary cover member having a grip tab extending from a side edge thereof.

Accordingly, a bottle with integrally formed opener is provided. The bottle with integrally formed opener includes a twist off bottle cap, a molded glass bottle, and a peel off sanitary cover member; the twist off bottle cap having a number of evenly spaced grippable teeth extending outwardly from an internally threaded center cover portion; the molded glass bottle having a neck portion and a bottom portion; the neck portion terminating in a externally threaded neck member defining a dispensing opening and companionately threaded to engage and hold the twist off bottle cap in sealing relation to the dispensing opening of the externally threaded neck member; the bottom portion

having a cap teeth engaging bottle cavity formed into a bottom surface thereof sized to receiving a twist off bottle cap therein and having a number of grippable teeth engaging protrusions that are sized and shaped to fit between evenly spaced grippable teeth of the twist off bottle cap; the peel off sanitary cover member being adhesively secured to the bottom surface of the bottom portion such that the cap teeth engaging bottle cavity is sealingly covered; the peel off sanitary cover member having a grip tab extending from a side edge thereof.

10 **Brief Description of Drawings**

For a further understanding of the nature and objects of the present invention, reference should be made to the following detailed description, taken in conjunction with the accompanying drawings, in which like elements are given the same or analogous reference numbers and wherein:

Figure 1 is a perspective view of an exemplary embodiment of the bottle with integrally formed opener showing the twist off bottle cap, the molded glass bottle, and the peel off sanitary cover member; the twist off bottle cap having a number of evenly spaced grippable teeth extending outwardly from an internally threaded center cover portion; the molded glass bottle having a neck portion and a bottom portion; the neck portion terminating in

10

15

bottle cavity with the peel off sanitary cover member peeled away.

Exemplary Mode for Carrying Out the Invention

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includes a twist off bottle cap, generally designated 12; a molded glass bottle, generally designated 14; and a peel off sanitary cover member, generally designated 16.

Twist off bottle cap 12 has a number of evenly spaced grippable teeth 18 extending outwardly from an internally threaded center cover portion 20. Molded glass bottle 14 has a neck portion 22 and a bottom portion 24. Neck portion 22 terminates in an externally threaded neck member 28 defining a dispensing opening 30 and has companionate threads 32 to engage and hold twist off bottle cap 12 in sealing relation to dispensing opening 30.

Bottom portion 24 has a cap teeth engaging bottle cavity 36 formed into a bottom surface 38 thereof sized to receiving a twist off bottle cap 12 of another identical bottle 10 therein. Cap teeth engaging bottle cavity 36 also has a number of grippable teeth engaging protrusions 40 that are sized and shaped to fit between evenly spaced grippable teeth 18 of twist off bottle cap 12.

Peel off sanitary cover member 16 is formed from moisture impermeable material and is adhesively secured to bottom surface 38 of bottom portion 24 such that cap teeth engaging bottle cavity 36 is sealingly covered. In use, peel off sanitary cover member 16 is removed by gripping and pulling on a grip tab 44 that extends from a side edge 46 thereof. Sanitary cover member 16 keeps cap teeth engaging bottle cavity 36 protected from contaminants on

surfaces such as table tops and the like prior to use to remove a twist off cap 12.

It can be seen from the preceding description that a bottle with integrally formed opener has been provided that includes

5 It is noted that the embodiment of the bottle with integrally
formed opener described herein in detail for exemplary purposes is
of course subject to many different variations in structure,
design, application and methodology. Because many varying and
different embodiments may be made within the scope of the inventive
10 concept(s) herein taught, and because many modifications may be
made in the embodiment herein detailed in accordance with the
descriptive requirements of the law, it is to be understood that
the details herein are to be interpreted as illustrative and not in
a limiting sense.

Claims

What is claimed is:

1. A bottle with integrally formed opener comprising:

a twist off bottle cap;

a molded glass bottle; and

a peel off sanitary cover member;

5 said twist off bottle cap having a number of evenly spaced grippable teeth extending outwardly from an internally threaded center cover portion;

said molded glass bottle having a neck portion and a bottom portion;

10 said neck portion terminating in a externally threaded neck member defining a dispensing opening and companionately threaded to engage and hold said twist off bottle cap in sealing relation to said dispensing opening of said externally threaded neck member;

said bottom portion having a cap teeth engaging bottle cavity
15 formed into a bottom surface thereof sized to receiving a twist off bottle cap therein and having a number of grippable teeth engaging protrusions that are sized and shaped to fit between evenly spaced grippable teeth of said twist off bottle cap;

said peel off sanitary cover member having a grip tab
5 extending from a side edge thereof.

Abstract—The purpose of this study was to determine the effect of a 10-week training program on the heart rate (HR) and heart rate reserve (HRR) of sedentary middle-aged men. The subjects were 15 men, 40 to 50 years of age, who had been sedentary for at least 1 year. They were randomly assigned to a 10-week training program or a control group. The training program consisted of 30 minutes of aerobic exercise, 3 times per week, at 70% of the maximum HR. The control group did not exercise. The HR and HRR were measured at rest and during a submaximal exercise test at the beginning and at the end of the 10-week period. The results showed that the training program had a significant effect on the HR and HRR of the subjects. The HR at rest decreased from 72 to 68 beats per minute (b·min⁻¹), and the HRR increased from 28 to 32 b·min⁻¹. The HR at rest and HRR were significantly different between the training and control groups at the end of the 10-week period. The results suggest that a 10-week training program can improve the cardiovascular fitness of sedentary middle-aged men.

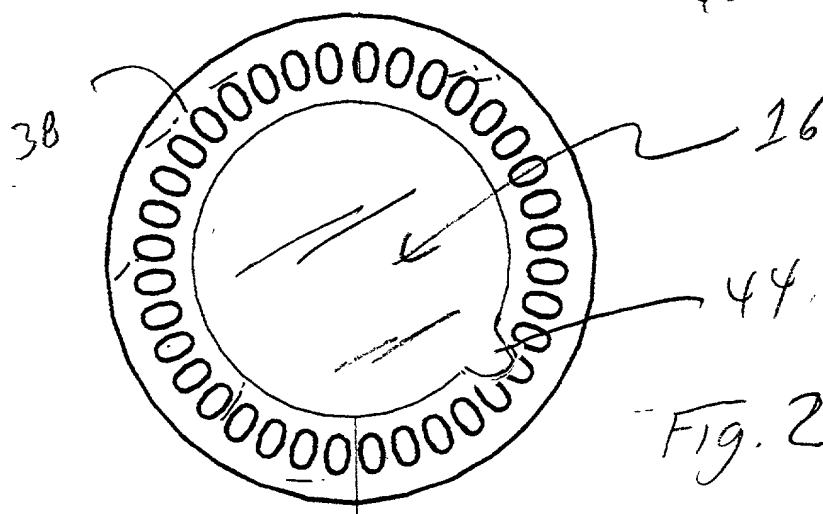
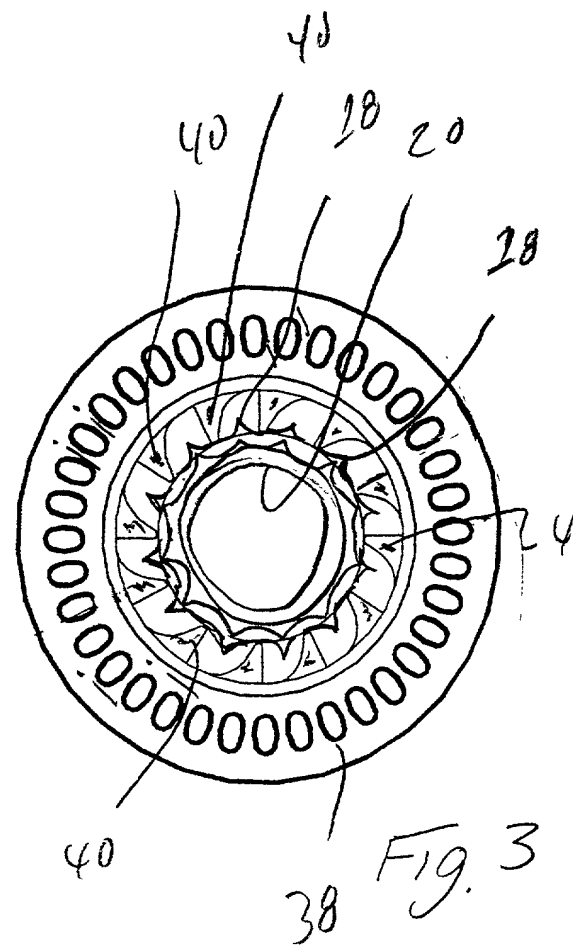
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Fig. 1

STICK ON PAPER
PEELS AWAY

BOTTLE
CAP

Labels in the diagram include: 10, 12, 16, 20, 22, 24, 28, 30, 32, 36, 38.



STICK ON PAPER KEEPS
OPENER AREA CLEAN

[illegible]

TITLE: BOTTLE WITH INTEGRALLY FORMED OPENER

COMMISSIONER OF PATENTS AND TRADEMARKS
WASHINGTON, D.C. 20231

As a below-named inventor, I hereby declare that:

I believe I am the original, first and sole inventor (or an original, first and joint inventor) of the subject matter which is claimed and for which a patent is sought on the invention entitled BOTTLE WITH INTEGRALLY FORMED OPENER, the specification of which

[] was filed on _____ as Serial No. _____ or Express Mail No. _____, and was amended on _____ (if applicable).

[] I hereby claim the benefit under Title 35,
United States Code § 119 (e) of any United
States Provisional Application(s) listed below.

Filing Date _____

I hereby state that I have reviewed and understand the content of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, § 1.56.

[] In compliance with this duty there is attached an information disclosure statement. 37 CFR 1.97

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

JOSEPH N. BREAUX, Registration No. 36,462

SEND CORRESPONDENCE TO:	DIRECT TELEPHONE CALLS TO:
Joseph N. Breaux	Joseph N. Breaux
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Baton Rouge, Louisiana 70810	

DECLARATION: I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF SOLE OR FIRST INVENTOR: Roberto L. Montero

RESIDENCE ADDRESS: Sarasota, Florida

POST OFFICE ADDRESS: 1703 Dodge Avenue, Sarasota, FL 34234

COUNTRY OF CITIZENSHIP: U.S.A. DATE: 2-1-00

SIGNATURE: [Signature]